

**APPENDIX:**

The Appendix includes the following item(s):

- ☒ - a new or amended Abstract of the Disclosure
- ☐ - a Replacement Sheet for Figure      of the drawings
- ☐ - a Substitute Specification and a marked-up copy of the originally-filed specification
- ☐ - a terminal disclaimer
- ☐ - a 37 CFR 1.132 Declaration
- ☐ - a verified English translation of foreign priority document

ABSTRACT OF THE DISCLOSURE

A parallel confocal laser microscopy system (2) includes a VCSEL vertical cavity laser array (23) for emitting light beams, optical elements(24) for focusing the light beams onto an object (25) to be observed. The invention is characterized in that a photodetector (22) is arranged behind each VCSEL laser such that the photodetector is capable of receiving a light beam backscattered from the object (25) via the VCSEL laser cavity, the cavity having an opening acting as filtering hole.